Approved For Release 2004/02/02;: CIA-RDP80B01676R001100090088-7

25 MAY 1956
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The Monorable Arthur . Florence Vobilization Executive Office Suilding Washington, J. C.

Deer Fr. Fleeming:

I refer to your inquiry of 15 by 1950 to Mr. Fuller concerning titanium production in the Mark and the Matellites.

I appreciate your requirement for information on titanium metal production and use in the Seviet Bloc. A review of Seviet policy regarding nonferrous metals, of which bitunium is one, reveals that the Council of Ministers has declared information on reserves and extraction of all nonferrous metals to be "a state secret, the divulgence of which is punishable by law." (Investige, 10 June 1947) This policy has actually been in effective operation since the mid-1930's. The result is that the Soviets have released no inferretion on the stabus of its titanium industry, and only recently have released scientific publications dealing with the theoretical aspects of the metal. In the directives of the Communist Party of the Loviet Union on the Sixth Five-Year Flan objectives, the only reference made to titanium is that "prospected deposite" are to be "increased 40 - 45 percent." Fr. Ehrushchev in a speech to the 20th Party Congress on Ih February 1956 mentioned that, in the next ten years, production of titenium, along with aluminum and magnesium, is to be developed in Siberia. These references and very little light on the question of Soviet production a d use of titanium metal.

Although the US R has a few deposits of rutile, the only cosmercially important titinium miseral used for making titanium matal, it has extensive deposits of ilmenite, a very low-grade source of titanium, in the Urals area. Other large ilmenite deposits have been discovered near Kirovak on the Folk Feninsuls and near Mariupol' in the Southern Maraine. The gral deposits are reported to contain 400 million tons of available are. No important titanium deposits are known to have been discovered in any of its satellites.

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The American Metal Mariant statement, issue of 2/ January 1956, that Soviet Missis may be producing 90,000 to 95,000 tone of titanium annually has been traced to a source in the U.S. Bureau of Mines. The basis for the statement is the theoretical quantity of titanium that could be extracted from the titaniferous iron ore (ilmenite) mined in the Brais area. A Soviet metallurgical journal, published in 1934, states that the ilmenite contains the percent iron, the percent titanium disside, and 0.6 percent variations pentoxids. The costs of processing such lean and refractory ore for its titanium content would be excessively high based on U.S. experience.

Since 1952, several articles on titanium have necessared in Soviet ecientific publications. Feore them is an article by I. I. Kornilov, "Titanium, its Properties, pplication, and Methods of Preparation," in Uspekhi Mimii (Progress of Chemistry), Vol. HILL, So. 5, 1994. Another article by Kornilow, Solutility of Chemical Elements in Titanium was published in the May - June 19th issue of Investive Akademii Hank (Bulletin of the Academy of Sciences). Published in Investive Akademii Hank Colf. Oktol. Tobb. Newk (Bulletin of the Leadery of Sciences Wisk, Division of Technical Sciences), No. 3, 1954, is an article to L. M. Scholer. V. P. Kelyutin, and V. I. Zalessky, Research into the Plastic Properties of Technical Titenium. Kornilov's Liblingraphy, incidentally, consists also at exclusively of reference materials of U. S. or other Proc Verld erigin. It is quite apparent from these titles and all other available literature that the Soviete are engaged in research on titamine metal, but such sources contain no information indicating that they are in fact extracting any of the titanius contained in their ilmenite or any other ores. Moreover, no evidence of the use of titanius metal in Soviet aircraft or in any other application has been found.

There is no evidence from any source, classified or unclassified, that the Soviet Floc is producing titenium metal on a commercial scale. High priority collection requirements for evidence of Soviet use of titanium metal have not resulted in any indication of successful application of titanium metal or titanium-base alloy.

In resognition of the seriousness of the situation resulting from the paucity of information on titenium production and use in the Soviet Elee, this Agency convened a meeting of titenium specialists from various other interested Government agencies. The commensus of the group was that there existed a Government-wide shortage of information on Soviet titenium developments.

It was also uneminously agreed that the extreme degree of secrety covering titanium information reflects the importance placed on titanium by the Poviets.

This letter will constitute an interim report and if, by I suguet, new information has some to our attention, a supplement will be submitted to you. At the end of the year we shall furnish as complete a report on titanium production in the loviet blocks our information will permit.

incerdy,

SIGNED

C. F. Cabell Edeutemant General, USAF cting Firector

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EXECUTIVE OFFICE OF THE PRESIDENT

OFFICE OF DEFENSE MOBILIZATION

WASHINGTON 25, D. C.

OFFICE OF THE DIRECTOR

MAY 1 5 1956

Honorable Allen W. Dulles Director Gentral Intelligence Agency Washington, D. C.

Dear Mr. Dulles:

In connection with our national program on titanium we frequently feel the need of knowing more concerning the nature and extent of the progress being made by the U.S.S.R. and satellites in the same field.

Accordingly, we would very much appreciate a study and report from you as to the titanium situation in the U.S.S.R., particularly as regards sources, the production status and trend, the quality of the products, and principal uses.

I realize that this is a "large order" but believe the usefulness of the information will much more than justify the effort.

Would it be possible to have an interim report by August 1 and a more extensive report by the end of this year?

Sincerely yours,

Arthur S. Flemming

Director

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